

4/5/2018

Print



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Purchasing Receipts

| PO No | Supplier | Line Item No | Rel No | Terms | Purchased Item | Description | For Part No | Project | Equipment ID | Order Qty | Due Date | Received Quantity | Accounting Job No | Container No | Status | Receive Date | Price/Unit | Aging Days | Past Due | Tt |
|----------|-----------|--------------|--------|--------|-----------------------------|--|-------------|---------|--------------|-----------|-----------|-------------------|-------------------|--------------|--------|--------------|----------------|------------|----------|-------|
| PO039299 | MES002-VC | 1 | 1 | Net 30 | M17-4-H900- S2.250X3.000 | 17-4 SS H900 Bar 2.250" X 03.000" MATERIAL: 17- 4 PH SS BAR AS PER AMS 5604/5643 GRAIN MUST RUN ALONG LENGTH OF BAR MINIMUM YIELD TENSILE STRENGTH = 170KSI MINIMUM ULTIMATE TENSILE STRENGTH = 190 KSI receive ft | | | | 7 | 3/30/2018 | 7 | | S058462 | Stock | 4/5/2018 | \$ 473.66 / ft | 0 | | \$3 |
| Total: | | | | | | | | | | 7 | | 7 | | | | | | | | \$2,5 |

Plex 4/5/2018 11:48 AM Dart.Dubois.Pascal



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO039299**

Supplier: MES002-VC
Metaux Solutions
2625 boul Jacques-Cartier Est
Longueuil
QC
J4N 1L7 Canada
Phone: 800 558 8858
Fax: 514 633 8044

PO No: PO039299

PO Date: 3/13/18

Due Date: 3/30/18

Purchase Order
Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
clavoie@dartaero.com

E-MAILED

MAR 14 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments:

Items

| Line Item | Part | Supplier Part No | Description | Status | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (CAD) | Extended Price |
|--------------|-------------------------|------------------|---|--------|----------|----------------|-------------------|---------|------------------|----------------|
| 1 | M17-4-H900-B2.250X3.000 | | 17-4 SS H900 Bar 2.250" X 03.000" : MATERIAL: 17-4 PH SS BAR AS PER AMS 5604/5643 GRAIN MUST RUN ALONG LENGTH OF BAR MINIMUM YIELD TENSILE STRENGTH = 170KSI MINIMUM ULTIMATE TENSILE STRENGTH = 190 KSI receive ft | Firmed | 3/30/18 | 7.083 ft | 0 ft | 7 ft | \$473.6634/ft | \$3,354.96 |
| Grand Total: | | | | | | | | | | \$3,354.96 |

Order Notes

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 3/13/18 1:47 PM dart.lavoie.chantal

CERTIFICATE OF TEST CERTIFICAT D'ESSAIS

Page 01 of 01

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Certification Date
27-MAR-2018

44393-J
PART NUMBER/NUMÉRO DE PIÈCE

Invoice Number
T377446

530252

SOLD TO: METAUX SOLUTIONS INC. SHIP TO: METAUX SOLUTIONS (RIVE-SUD)
VENDU À: 2625 BOUL JACQUES CARTIER EST EXPÉDIÉ À: 2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1L7 LONGUEUIL QC J4N 1

Description: 17-4 HRAP PLATE SOL ANN
2-1/4 S/C 3.000" X 85.000" RECTANGLE
HEAT: S1660 ITEM: 530252

AMS 5604
Line Total: 167.4468 LB

Specifications:

AMS 5604 H
ASME SA693 15

GS 02 2/10

ASTM A693 13

CHEMICAL ANALYSIS

| | | | | | | | |
|-------|--------|-------|-------|-------|-------|------|------|
| C | MN | SI | P | S | CR | NI | CU |
| 0.031 | 0.7800 | 0.36 | 0.022 | 0.001 | 15.99 | 4.54 | 3.26 |
| MO | N | NB | TA | CO | | | |
| 0.051 | 0.0492 | 0.274 | 0.003 | 0.013 | | | |

RCPT: R240230

COUNTRY OF ORIGIN : FRANCE

MECHANICAL PROPERTIES

| DESCRIPTION | YLD STR PSI | ULT TEN PSI | %ELONG IN 02 IN | %RED IN AREA | HARDNESS BHN |
|-------------|----------------|----------------|--------------------|-----------------|-----------------|
| COND A | 113470.0 | 161010.0 | 13.0 | | 341 |
| H900 | 183040.0 | 204490.0 | 16.0 | 50.0 | 401 |

MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL
MICRO1: OK


COMMENTS
FE 75.0

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

METCOR INC.

560 BOUL. ARTHUR-SAUVÉ, ST-EUSTACHE, QC, J7R 6A6

Tél: 450-473-1824

Télécopieur / Fax administration: 450-491-3499

Télécopieur / Fax production: 450-491-6434

Certificat de Conformité Certificate of Compliance

| BON DE TRAVAIL order | CHARGEMENT load |
|-------------------------|--------------------|
| 326486 | 1 |

CLIENT / customer: 780

METAL SOLUTIONS

2625 BOUL. JACQUES-CARTIER EST

LONGUEUIL

QC J4B 6G6

LIVRÉ À / shipped to:

METAL SOLUTIONS

2625 BOUL. JACQUES-CARTIER EST

LONGUEUIL

QC J4B 6G6

| COMMANDE DU CLIENT customer po | CLASSIFICATION PIÈCE part classification | MATÉRIEL material | MAÎTRE D'OEUVRE prime contractor | PROGRAM |
|-----------------------------------|---|----------------------|-------------------------------------|---------|
| 44394 | N/A | 17-4PH | | |

SPÉCIFICATIONS DU PROCÉDÉ processing specifications

AGE HARDEN

CONDITION H 900

| RIGIDITÉ / requirement | SPÉCIFICATIONS / specified | TESTS EXÉCUTÉS / performed | RÉSULTATS DE TESTS / results |
|------------------------|----------------------------|----------------------------|------------------------------|
| HARDNESS | 40 - 47 HRC | 1 | 45 - 46 HRC |

| QUANTITÉ quantity | POIDS weight | DESCRIPTION DES PIÈCES parts description |
|----------------------|-----------------|---|
| 1 | 174 | PIECES (1) PIECES 1 NIL |

COMMENTAIRES / comments

APPROUVÉ par / Approved by:

DATE: 2018-04-01

Pierre Piché
Chief Inspector



APPROUVÉ

Shipping Order

04/04/2018

METAUX SOLUTIONS INC
2625 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7
Tel. : 450 641-3330

Order : 133553
Reference : PO039299
Ship : PICK UP / PICK UP

Customer : 6323336

Ship To

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Same

Tel. : 1 613 632-3336

| <i>Item No.</i> | <i>Description</i> | <i>Qty</i> | <i>Qty. Deliver</i> | <i>B/O Qty</i> |
|-----------------|---|------------|---------------------|-------------------|
| SP214385174PH | ***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N 17-4PH PLT. 2.25 X 3 X 85 COND. H900 1 PCE ***** HT,S1660 | 1 | / | Ø |
| | | | 7 ¹ | DAS 11 9-89 |
| | | | | APR 05 2018 |
| | SHIP JOURNEY COLLECT JP | | | |

Shipping : _____
Package No : _____
Merchandise Received : _____

Ref. : _____

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M17-4-H900-B2.250x3.000

PO / BATCH NO.: 039289/S058462

DATE: APR 05 2018

MATERIAL CERT REC'D: Y/CS

THICKNESS ORDERED: 2.250

QUANTITY RECEIVED: 7'

THICKNESS RECEIVED: 2.250

QUANTITY INSPECTED: 2'

SHEET SIZE ORDERED: N/A

QUANTITY REJECTED: 0

SHEET SIZE RECEIVED: N/A

| DESCRIPTION | NCR (Check Y/N) | | COMMENTS |
|--|-----------------------|-----|--------------|
| SURFACE DAMAGE | Y | (N) | |
| CORRECT FINISH | (Y) | N | |
| CORROSION | Y | (N) | |
| CORRECT GRAIN DIRECTION | (Y) | N | |
| CORRECT MATERIAL PER M-DRAWING | (Y) | N | AMS 5604 |
| CORRECT THICKNESS | (Y) | N | |
| PHOTO REQUIRED | Y | (N) | |
| CORRECT REF # TO LINK CERT | (Y) | N | Heat # 51660 |
| CORRECT MATERIAL IDENTIFICATION | (Y) | N | |
| CORRECT M# ON THE MATERIAL | (Y) | N | |
| DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF | Y | (N) | |
| DOES THIS REQUIRE AN EXTRUSION REPORT | Y | (N) | |

| CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW | | | | | |
|--|-----|-----|-------|-------|---------|
| TYPE OF MATERIAL | HRC | HRB | DUR A | DUR D | WEBSTER |
| SIZE OF TEST SAMPLE | | | | | |
| HARDNESS / DUROMETER READING | | | | | |

testers located in the Quality Office

| QC 18 INSPECTION | | ENGINEERING SIGNOFF (if required) | |
|---------------------------------------|--|-----------------------------------|--|
| INSPECTED BY: <u>DAS</u> <u>11</u> | | SIGNED OFF BY: _____ | |
| DATE: <u>9-89 APR 05 2018</u> | | DATE: _____ | |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

- PURCHASE MATERIAL:** 17-4 PH / TYPE 630 / S17400 SS BAR
GRAIN MUST BE ALONG LENGTH OF BAR
MINIMUM YIELD STRENGTH PER TABLE
MINIMUM ULTIMATE STRENGTH PER TABLE
- SPECIFICATION:** AMS 5604 OR AMS 5643 OR ASTM A693 OR ASTM 564
- PART NUMBER:** M17-4-~~HHHH~~-B | T.TTT | X | WW.WWW | WHERE: HHHH SPECIFIES THE MATERIAL CONDITION (PER TABLE BELOW)
COND | THICK | WIDTH | T.TTT SPECIFIES THE THICKNESS
WWW.WWW SPECIFIES THE WIDTH

MATERIAL CONDITION TABLE:

| CODE | CONDITION | MIN YIELD TENSILE STRENGTH (KSI) | MIN ULTIMATE TENSILE STRENGTH (KSI) |
|-----------|---|----------------------------------|-------------------------------------|
| (OMITTED) | NONE SPECIFIED (CONDITION A NOT ACCEPTABLE) | 100 | 150 |
| H900 | H900 | 170 | 190 |
| H925 | H925 | 155 | 170 |
| H1025 | H1025 | 145 | 155 |
| H1075 | H1075 | 125 | 145 |
| H1100 | H1100 | 115 | 140 |
| H1150 | H1150 | 105 | 135 |
| CONDA | CONDITION A (SOLUTION TREATED) | | |

- NOTES:** MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR TENSION OR SHEAR APPLICATIONS IN COLD WEATHER CONDITIONS
- MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR APPLICATIONS WHERE STRESS CORROSION CRACKING IS POSSIBLE
- CONDITION A NOT TO BE USED IN DESIGN FOR FINAL PRODUCT AND SHOULD ALWAYS BE HEAT TREATED

EXAMPLES:

- PART 0.250" X 4.000" BAR MINUTYS = 150 KSI, MINUTYS = 100 KSI
- 1.000" X 2.500" BAR H900 CONDITION
- 0.500" X 3.250" BAR H1025 CONDITION
- 0.750" X 2.500" BAR A CONDITION
- PART NUMBER M17-4-B0.250X4.000 M17-4-H900-B1.000X2.500 M17-4-H1025-B0.500X3.250 M17-4-CONDA-B0.750X2.500

RELEASED
2017-10-31
BOM17-728

APPROVED

| | | | |
|---|---|-------------|----------|
| B | ADD MATERIAL CONDITION AND REFORMAT DRAWING (CIR17-107) | NO | 17.09.14 |
| A | REV. | DS | 02.04.18 |
| REV. | NEW ISSUE | BY | DATE |
| DESIGN | NO | DESCRIPTION | |
| DRAWN | NO | | |
| CHECKED | CP | | |
| MFG. APPR. | DD | | |
| APPROVED | WM | | |
| DE APPR. | CP | | |
| DATE | 17.09.14 | | |
| DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | | | |
| DRAWING NO. M17-4-B | | | |
| SHEET 1 OF 1 | | | |
| SCALE | | | |
| 17-4 SS BAR | | | |
| NTS | | | |
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